



UMC Research Reactor

University of Missouri-Columbia

Research Park

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March 15, 2005

Mr. Alexander Adams, Jr.
U.S. Nuclear Regulatory Commission
Mail Stop O12-G13
Washington, DC 20555-0001

REFERENCE: Docket No. 50-186
University of Missouri- Columbia Research Reactor
Amended Facility License R-103

SUBJECT: MURR Operations Monthly Summary

Dear Mr. Adams:

Enclosed is a copy of MURR's Monthly Operations Summary for February 2005. If you have any questions, please contact me at (573) 882-5276.

Sincerely,

Leslie P. Foyto
Reactor Manager

LPF/djr

Enclosure

ADZO

**UNIVERSITY OF MISSOURI
RESEARCH REACTOR**

OPERATIONS MONTHLY SUMMARY

February 2005

**Prepared by:
Operations Staff**

INTRODUCTION

The reactor operated continuously in February with the following exceptions: 4 shutdowns for scheduled maintenance and refueling; 1 unscheduled shutdown.

MAINTENANCE ACTIVITIES

2/7/05 Refueled - removed core 05-05, loaded core 05-06.

2/8/05 Refueled - removed core 05-06, loaded core 05-07.

2/14/05 Refueled - removed core 05-07, loaded core 05-08.

2/21/05 Refueled - removed core 05-08, loaded core 05-09.

Completed Modification Record 80-5 Addendum 1 (Removal of Bulk Pool Lead Shield Facility).

Replaced Pneumatic Tube System photo sensor collar for row 2 irradiation position as part of Modification Record 05-1 (Pneumatic Tube System Photo Sensor Collar Upgrade).

Completed Modification Record 04-5 Addendum 2 (Install Independent 13.8-kV Feeder Lines to Cooling Tower and Laboratory Building Transformers).

Completed Modification Record 04-5 Addendum 3 (Replacement of 500-kVA Cooling Tower Transformer with a 1500-kVA Transformer).

2/28/05 Refueled - removed core 05-09, loaded core 05-10.

Loaded new pool de-ionization bed 'P'.

Completed Modification Record 05-1 (Pneumatic Tube System Photo Sensor Collar Upgrade) by replacing Pneumatic Tube System photo sensor collar for row 1 irradiation position.

Reinstalled refurbished Secondary Coolant System Flow Distribution Valve S-17.

UNSCHEDULED SHUTDOWNS

<u>Date</u>	<u>No.</u>	<u>Type</u>	<u>Cause</u>
2/8/05	1176	Rod Run-In	Blade 'D' Not In Contact With Magnet

On February 8, a "Rod Not In Contact With Magnet Rod Run-In" was automatically initiated when control blade "D" anvil separated from its magnet during a routine outward shimming evolution. The reactor was shutdown and the pull rod to housing alignment was checked and verified, and the anvil and magnet were cleaned. The control rod was satisfactorily withdrawn to the full out position as part of the retest. The reactor was refueled and subsequently returned to 10 MW operation.

OPERATION SUMMARY FOR MONTH OF
University of Missouri Research Reactor Center (MURR)

Feb-05

HOURS OPERATED THIS PERIOD

606.49

TOTAL HOURS OPERATED, REACTOR

264,496.88

HOURS OPERATED AT FULL POWER, THIS PERIOD

604.64

TOTAL HOURS AT FULL POWER, REACTOR.

261,148.12

INTEGRATED POWER THIS PERIOD

252.04

MWD

TOTAL INTEGRATED POWER, REACTOR

103,013.19

MWD

Submitted by: Das K
MWD Custodian/Reactor Physicist

Date: 3/7/05